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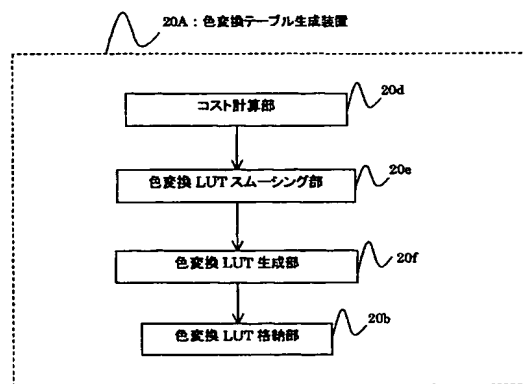
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[続葉有]

(54) Title: METHOD OF PRODUCING COLOR CONVERSION TABLE, IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, PROGRAM AND RECORDING MEDIUM

(54) 発明の名称: 色変換テーブル生成方法、画像処理装置、画像処理方法、プログラムおよび記録媒体



20A...COLOR CONVERSION TABLE PRODUCING DEVICE
20d...COST CALCULATING UNIT
20e...COLOR CONVERSION LUT SMOOTHING UNIT
20f...COLOR CONVERSION LUT PRODUCING UNIT
20b...COLOR CONVERSION LUT STORING UNIT

(57) Abstract: A method of producing a color conversion table capable of enhancing continuity in an image-data color conversion, an image processing device and a method using the color conversion table, a program and a recording medium. The image processing device performs an image processing by using a color conversion table produced by using functions for evaluating a smoothing level at each element of lattice point data after color conversion by a color conversion table. Functions for evaluating the above smoothing level include a function based on the twisted quantity of ink-quantity vector, a function based on a twisted quantity at a virtual CMY, a function based on a deviation from a target ink quantity, a function based on a deviation from a target virtual CMY, a function based on a failure to meet an ink quantity limitation, a function based on ink quantity reduced to minus, and a function based on ink generation.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/00110

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H04N1/46, H04N1/60, G06T1/00, B41J2/525

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H04N1/40-1/409, H04N1/46-1/64

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Jitsuyo Shinan Toroku Koho	1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 9-509295 A (Apple Computer, Inc.), 16 September, 1997 (16.09.97), Full text; all drawings & WO 95/22867 A1 & US 5557712 A	1-61
X	JP 6-225131 A (Canon Information Systems, Inc.), 12 August, 1994 (12.08.94), Full text; all drawings & US 2599291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
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Authorized officer

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 6-225132 A (Canon Information Systems, Inc.), 12 August, 1994 (12.08.94), Full text; all drawings & US 5299291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61
X	JP 6-233129 A (Canon Information Systems, Inc.), 19 August, 1994 (19.08.94), Full text; all drawings & US 5299291 A & EP 592147 A3 & EP 592146 A3 & EP 592141 A3 & US 5438649 A & US 5500921 A	1-61
X	JP 1-165441 A (Minolta Camera Co., Ltd.), 29 June, 1989 (29.06.89), Full text; all drawings & EP 321983 A2 & US 5073818 A	1-61
X	JP 1-166669 A (Minolta Camera Co., Ltd.), 30 June, 1989 (30.06.89), Full text; all drawings & EP 321983 A2 & US 5073818 A	1-61
X	JP 63-254863 A (Konica Corp.), 21 October, 1988 (21.10.88), Full text; all drawings & EP 273398 A2 & US 4959711 A & US 5065234 A	1-61